

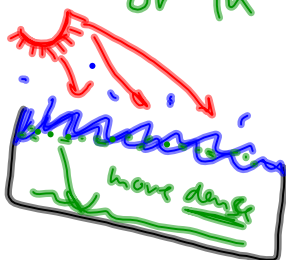
# Ocean Water (Section 1) Review

Grade: 9th  
Subject: Earth Science  
Date:

Mar 17-9:31 AM

## Bellringer

- What is density?  $19.3 \text{ g/cm}^3$  → 362.3g Au  
volume Au?
- What is salinity?  
↳ amount of dissolved salts → solids
- Is the ocean saltier at the surface  
or in the deep ocean? Explain



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Bellringer

- What is a thermocline?
- thermocline →  $\begin{array}{c} \text{Hot} \\ \text{Cold} \end{array}$  of the
- Why is the bottom<sup>^</sup> ocean saltier than the surface? density of saltwater
- What is the relationship between the ocean and  $\text{CO}_2$ ?
- Find the density of a substance that has a mass of 251g and a volume of 13.9mL.

$$\frac{251\text{g}}{13.9\text{mL}} \longrightarrow 18.1\text{ g/mL}$$

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- 1 A measure of the amount of dissolved salts in a given liquid is \_\_\_\_\_.

Salinity

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2 The ratio of the mass of a substance to the substance's volume is \_\_\_\_\_.

density

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3 A layer in a body of water in which water temperature drops with increased depth faster than it does in other layers is called a \_\_\_\_\_.

thermocline

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4 Most oxygen enters the ocean from...

- A underwater volcanoes
- B streams and rivers
- ☒ C the atmosphere
- D sea life

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5 Gases dissolve most easily in...

- A shallow ocean water
- B salty ocean water
- C warm ocean water
- ☒ D cold ocean water

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6 Ocean water temperature depends on the solar energy an area receives and the water's ...

- ☒ A movement
- ☐ B organisms
- ☐ C salinity
- ☐ D mineral content

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7 As deep ocean water becomes colder, it also becomes...

- ☐ A saltier
- ☒ B denser
- ☐ C clearer
- ☐ D lighter

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8 Two factors that affect the salinity of ocean water are...

- A density and light
- B density and energy
- C density and chemicals
- ☒ D density and temperature

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## Life in Oceans Review

Grade: 9th  
Subject: Earth Science  
Date:

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1 Marine organisms help balance the chemistry of ocean water by removing nutrients and gases and...

- A altering the water temperature
- B consuming harmful bacteria
- ☒ C returning other nutrients
- D balancing the color of ocean water

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2 What is called the foundation of life in the ocean?

- A whales
- B minerals
- C salt
- ☒ D plankton

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3 Nutrients in ocean water are stored...

- A near the surface
- B at the tropics
- C at the polar regions
- ☒ D in deep water

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4 Which of the following live in the peglagic zone?

- A sponges
- B worms
- ☒ C marine mammals
- D sea lillies

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- 5 The mass of mostly microscopic organisms that float or drift freely in the waters of aquatic environments, both freshwater and ocean are called \_\_\_\_\_.

plankton

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- 6 The bottom region of the ocean is referred to as the benthic zone.

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7 The region of an ocean or body of fresh water above the benthic zone is called the \_\_\_\_\_ zone.

pelagic

;

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8 The movement of deep, cold, and nutrient-rich water to the surface is called \_\_\_\_\_.

upwelling

;

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9 Organisms that live at the bottom of the ocean are called benthos.

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10 All organisms that swim actively in open water, independent of currents are called \_\_\_\_\_.

nekton

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## Bellringer

- What is an upwelling?
- How does an upwelling affect the Marine Food web?
- Describe the marine food web and the role of plankton in the food web.

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# Ocean Resources

Grade: 9th  
Subject: Earth Science  
Date:

Mar 19-9:49 AM

1 The ocean is the main source of the trace minerals...

- ☒ A magnesium and bromine
- ☐ B bromine and chloride
- ☐ C chloride and sodium
- ☐ D sodium and bromine

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2 Most offshore oil and petroleum deposits are found...

- ☐ A on the abyssal floor
- ☐ B on the continental shelf
- ☒ C along continental margins
- ☐ D under the ocean basin

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3 A major problem for aquaculture is...

- A insufficient ocean water
- B severe weather
- ☒ C pollution
- D high cost

Mar 19-9:51 AM

4 In addition to increased use of toxic chemicals, what has reduced the ocean's ability to renew itself?

- A oil drilling
- B global warming
- ☒ C increased world population
- D chemical imbalance

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5 In addition to limiting the use of leaded gasoline, what has the U.S. done to reduce ocean pollution?

- A stopped the dumping of garbage into the ocean
- ☒ B banned the toxic chemical DDT
- C controlled the effects of acid rain
- D ended offshore oil drilling

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6 The process of removing salt from ocean water is called desalination

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7 Freezing water, which produces ice, is a method to produce fresh water.

True

False

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8 A potato-shaped lump of minerals found on the ocean floor is called a nodule.

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9 The raising of aquatic plants and animals for human use or consumption is called...?

aquaculture

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10 Using a filter and high pressure to mine fresh water from ocean water is called ~~forward diffusion~~.

reverse osmosis

True

False

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